Location: East of TA-18 on the south side of Pajarito Rd., east of the stream channel.

Survey coordinates (brass marker in NW corner of R-20 cement pad): x: 1637835 E y: 1759695 N (NAD 83 ) z: 6694.3 ft asl (NGVD 29)

Drilling: Conventional mud drilling, casing advance; air rotary core w/ wireline retrival.
R-20 Start date: 08/15/02, end date: 09/06/02.
Coring start date: 10/16/02, end date: 10/19/02

Borehole R-20 drilled to 1365 ft. bgs. (T.D.).

Data collection:
Hydrologic properties: Field hydraulic test: Constant Rate Injection Test on screen #1, screen #2, and screen #3
Cores/cuttings submitted for geochemical and contaminant characterization: (0)
Groundwater samples submitted for geochemical and contaminant characterization: (3)
Geologic properties: (12) Mineralogy, petrography, and chemistry
Borehole logs from R-20:
Lithologic: 0-490 ft. and 785 ft.-1365 ft.
Borehole Video (LANL tool): 82-785 ft. (open hole).
Natural gamma + Induction (LANL tool): 0-80.2 ft. (cased), 80.2 ft.-785 ft. (cased).
Schlumberger Logs: 0-80.2 ft. (cased), 80.2-785 ft. (open hole): Array Induction, Litho Density, Natural Gamma, Thermal/Epithermal Neutron,Caliper, Combinable Magnetic Resonance, and Elemental Capture Sonde.
Natural Gamma (LANL tool): 0-780 ft. (cased), 780-1365 ft. (open hole).
Schlumberger Logs: 0-780 ft. (cased), 780-1365 ft. (open hole): Thermal/Epithermal Neutron, Litho Density, Micro Imager, Array Induction, and Natural Gamma.

Contaminants Detected in R-20 Water Samples: none

Well construction:
Drilling Completed: 09/06/02
Contract Geophysics: 08/26/02; 09/06/02
Well Constructed : 09/07/02-09/15/02
Well Developed : 09/15/02-12/22/02
Westbay Installed : 01/08/03-01/18/03

Casing: 4.5-in I.D. stainless steel with external couplings.

Number of Screens: 3
4.5-in I.D. pipe based, s.s. wire-wrapped with 0.010-in slots.

Screen (perforated pipe interval):
Screen #1 - 904.6 - 912.2 ft. bgs.
Screen #2 - 1147.1 - 1154.7 ft. bgs.
Screen #3 - 1328.8 - 1336.5 ft. bgs.

Well development consisted of wire brushing, bailing, chemical treatment, surging, and pumping.

Groundwater occurrence was determined for R-20 by recognition of first water produced while drilling, by borehole geophysics, and by borehole video. Static water levels were determined after the R-20 borehole was rested.

Groundwater samples collected from packed off screen intervals after well development.

Geologic contacts for R-20 were determined by examination of cuttings and interpretation of geophysical logs. Contacts may be refined by petrographic, geochemical, or mineralogic analysis of geologic samples.